



Job No.: CTCE/BBMP/W.No.14/GAMD/CSR-03/1105b/CEMENT/2015-16 Date: 28.03.2016

TEST REPORT ON CEMENT

*CUSTOMER	: Asst. Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
*AGENCY	: Mr. Gnanendra Murthy, M.D, #410, Balaji Nilaya, 5 th Main Road, 4 th Cross, Kengeri Satellite Town, Bangalore - 60.
*NAME OF THE WORK	: Improvements to 13 th B and C cross roads in Vishveshwaraiah Layout in Bagalagunte Ward No.14, BBMP, Bangalore.
*REFERENCE	: EE/DD/WO/60/2015-16 Dated: 24.03.2016
SAMPLE ID	: Cement
SAMPLE RECEIVED ON	: 24.03.2016
PERIOD OF TESTING	: 24.03.2016 to 28.03.2016

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part-4) 1988(RA-2009)	30.00 %	-
2	a) Initial Setting Time	IS-4031 (Part-5) 1988(RA-2009)	135 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5) 1988(RA-2009)	465 Minutes	Not More than 600 Minutes
3	Soundness by Le Chatlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

Note:

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- ⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.
- ⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

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Vishwanath .C
Quality Manager

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Vishwanath .C
Quality Manager



Job No.: CTCE/BBMP/W.No.14/GMAD/CSR-03/1105b/SAND-Gradation/2015-16 : 28.03.2016

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

* Customer : Asst. Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

* Agency : Mr. Gnanendra Murthy. M.D,

#410, Balaji Nilaya, 5th Main Road, 4th Cross, Kengeri Satellite Town, Bangalore - 60.

* Name of Work : Improvements to 13th B and C cross roads in Vishveshwaraiah Layout in Bagalagunte Ward No.14, BBMP, Bangalore.

Reference : EE/DD/WO/60/2015-16 Dated: 24.03.2016

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates

Sample Received on : 24.03.2016

Date of Testing : 28.03.2016

Total Wt. of Aggregates in gms

1000

Is Sieve Size in mm	Cumulative Weight Passing in %	Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	94.10	90-100	90-100	90-100	95-100
2.36	73.10	60-95	75-100	85-100	95-100
1.18	47.60	30-70	55-90	75-100	90-100
600 Micron	23.10	15-34	35-59	60-79	80-100
300 Micron	10.60	5-20	8-30	12-40	15-50
150 Micron	4.60	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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VISHWANATH .C
Quality Manager

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

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Job No.: CTCE/BBMP/W.No.14/GMMD/CSR-03/1105b/AGG/GR/2015-16 : 28.03.2016

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

*** Customer** : Asst. Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
*** Agency** : Mr. Gnanendra Murthy, M.D,
#410, Balaji Nilaya, 5th Main Road, 4th Cross, Kengeri Satellite Town, Bangalore - 60.

*** Name of Work** : Improvements to 13th B and C cross roads in Vishveshwaraiah Layout in Bagalagunte Ward No.14, BBMP, Bangalore.

Reference : BE/DD/WO/60/2015-16 Dated: 24.03.2016

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Coarse Aggregates (40mm)

Sample Received on : 24.03.2016

Date of Testing : 28.03.2016

Total Wt. of Aggregates in gms = 10000

Is Sieve Size in mm	Cumulative Weight Passing in %	Graded	Single Sized
80	100	100	-
63	100	-	100
40	98.00	95-100	85-100
20	46.00	30-70	0-20
10	19.50	10-35	0-5
4.75	4.00	0-5	-

* Information is furnished by the Customer/Representative
Remarks : This sample is under Graded specific limits.

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VISHWANATH .C
Quality Manager



Job No.: CTCE/BBMP/W.No.14/GMMD/CSR-03/1105b/CC Solid Block/2015-16 : 30.03.2016

TEST REPORT ON SOLID CONCRETE BLOCKS

* Customer : Asst. Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

* Agency :

Mr. Gnanendra Murthy, M.D,

* Name of the Work : Improvements to 13th B and C cross roads in Vishveshwaraiah Layout in -60.

Bagalagunte Ward No.14, BBMP, Bangalore.

Reference : EE/DD/WO/60/2015-16 Dated: 24.03.2016

Sample Received on

: 24.03.2016

Date of Testing

: 30.03.2016

Size of Blocks : 400mm x 200mm x 200mm

Cross Sectional Area : 80000 mm²

Technical Reference : IS: 2185 (Part 1) - 2005

No. of Blocks Tested : 08

Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm ²)	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	34.23	260.2	3.25	Minimum required Compressive Strength of Individual Units 3.20 N/mm ²
2	Block 2	35.12	261.5	3.27	
3	Block 3	36.20	262.3	3.28	
4	Block 4	34.56	258.4	3.23	
5	Block 5	35.29	259.8	3.25	
6	Block 6	36.23	263.5	3.29	
7	Block 7	35.85	264.1	3.30	
8	Block 8	34.25	265.1	3.31	

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Quality Manager



Job No.: CTCE/BBMP/W.No.14/GMMD/CSR-03/1105b/CUBE/2015-16 29.04.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer** : Asst. Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
*** Agency** : Mr. Gnanendra Murthy. M.D,
#410, Balaji Nilaya, 5th Main Road, 4th Cross, Kengeri Satellite Town,
Bangalore - 60.
*** Name of the work** : Improvements to 13th B and C cross roads in Vishveshwaraiah Layout in
Baglagunte Ward No.14, BBMP, Bangalore.

*** Reference** : EE/DD/WO/60/2015-16 Dated: 24.03.2016



*** Sample ID** : Road Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M₁₅

Compressive Strength as on : 28th day

Sample Received on : 29.04.2016

SI.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	01.04.2016	29.04.2016	8.129	359.3	15.97
2	01.04.2016	29.04.2016	8.263	368.3	16.37
3	01.04.2016	29.04.2016	8.398	372.2	16.54

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